

ALIGNER

PUB. NO.: 06-216000 [JP 6216000 A]
PUBLISHED: August 05, 1994 (19940805)
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APPL. NO.: 05-023564 [JP 9323564]
FILED: January 19, 1993 (19930119)
INTL CLASS: [5] H01L-021/027; G03F-007/20
JAPIO CLASS: 42.2 (ELECTRONICS -- Solid State Components); 29.1 (PRECISION
INSTRUMENTS -- Photography & Cinematography)
JAPIO KEYWORD: R002 (LASERS)
JOURNAL: Section: E, Section No. 1624, Vol. 18, No. 573, Pg. 116,
November 02, 1994 (19941102)

ABSTRACT

PURPOSE: To rapidly replace the air of a vessel of a lens system of an aligner with inert gas.

CONSTITUTION: A wafer 4 is irradiated with a laser light L(sub 1) emitted from a light source 1 via a light source lens system 2, a reticle 3 and a projection lens system 5. Lenses 2a-2c of the system 2 are contained in a vessel 2d. When the source 1 is started to be driven, first and second solenoid valves 8b, 8c of a nitrogen gas supply unit 8 are simultaneously opened, a large quantity of nitrogen gas is supplied to internal spaces 2f, 2g of the vessel 2d, and replaced with the air. After a predetermined time is elapsed, the valve 8c is closed by a program set to a controller 7. Thereafter, a small quantity of the nitrogen gas is supplied to the vessel 2d only via a bypass line 8d.